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☐ 1. Document ID: US 6892202 B2

L4: Entry 1 of 22

File: USPT

May 10, 2005

US-PAT-NO: 6892202

DOCUMENT-IDENTIFIER: US 6892202 B2

TITLE: Optimistic transaction compiler

DATE-ISSUED: May 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arcand; Jean-Francois	Santa Clara	CA		

US-CL-CURRENT: 707/10; 707/8

ABSTRACT:

A method for updating Enterprise JavaBeans (EJB) classes is provided. Each EJB class is managed by an application server which maintains a database of active EJB classes. The method includes defining an update plug for an existing EJB class and assigning the update plug to the existing EJB. The method also includes compiling the existing EJB class using the update plug to generate a dependent EJB class. The dependent EJB class uses an adapter and a contract to gain access to methods of the dependent EJB class. Each method of the dependent EJB class is associated with an algorithm that defines a locking timestamp.

20 Claims, 11 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Drawings
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☐ 2. Document ID: US 6859922 B1

L4: Entry 2 of 22

File: USPT

Feb 22, 2005

US-PAT-NO: 6859922

DOCUMENT-IDENTIFIER: US 6859922 B1

TITLE: Method of providing software testing services

DATE-ISSUED: February 22, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baker; Caren H.	Waltham	MA		
Friedman; George	Framingham	MA		
Glik; Michael V.	Newton	MA		
Vahey; Walter G.	Winchester	MA		

US-CL-CURRENT: 717/125; 705/51, 717/120, 717/121, 717/124

ABSTRACT:

A system that provides easy testing of software objects and reduces the burden on a program developer for maintaining a test system is presented. The system accepts as an input objects and automatically creates test drivers for these objects. The test objects are provided to a test bed comprising an application server where the objects are tested by application of the test drivers.

In a preferred embodiment, the test bed comprises a collection of application servers. An application service provider provides the system test driver and the test bed. Access to the test system is provided by passing a representing of the object under test to the application service provided through a network interface. The application service provider provides test services on a fee for service basis.

17 Claims, 1 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Figures	Figures	Claims	Index	Drawings
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☐ 3. Document ID: US 6859834 B1

L4: Entry 3 of 22

File: USPT

Feb 22, 2005

US-PAT-NO: 6859834

DOCUMENT-IDENTIFIER: US 6859834 B1

TITLE: System and method for enabling application server request failover

DATE-ISSUED: February 22, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arora; Tej	Sunnyvale	CA		
Das; Saumitra	Santa Clara	CA		

US-CL-CURRENT: 709/227; 709/225, 714/4

ABSTRACT:

System and method for enabling application server request failover. For each

application server request to be performed by a client computer, a requesting thread may be operable to utilize a custom wire-level communication protocol. Request failure detection mechanisms may be built into the custom wire-level communication protocol so that a requesting thread detects a failed request much sooner than if the thread utilized a standard communication protocol and relied on the client computer operating system for notification of failed requests. After sending a request to an application server, a requesting thread may be operable to "sleep" and then periodically wake up to poll the application server computer to determine whether the request has failed. If the requesting thread receives a response from the application server computer indicating that the request is not currently being processed, then the requesting thread may re-send the request. Receiving no response to the poll message may indicate that the application server computer is offline, e.g., due to a failure. The requesting thread may redirect the request to another application server computer if necessary.

48 Claims, 25 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 25

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Drawings
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☐ 4. Document ID: US 6850893 B2

L4: Entry 4 of 22

File: USPT

Feb 1, 2005

US-PAT-NO: 6850893

DOCUMENT-IDENTIFIER: US 6850893 B2

TITLE: Method and apparatus for an improved security system mechanism in a business applications management system platform

DATE-ISSUED: February 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lipkin; Daniel S.	Belmont	CA		
Mehra; Gaurav	Bandra (w) Mumbai			IN

US-CL-CURRENT: 705/8; 434/118, 434/350, 434/362, 705/76, 705/9, 707/1, 707/103R, 713/182, 713/200, 713/201

ABSTRACT:

The present invention provides a solution to the needs described above through an improved method and apparatus for an improved security system mechanism in a business applications management system platform. The security management system partitions a number of business objects into a number of hierarchical domains. A security list is then created and configured to grant a member the right to perform a security operation on the business object located within the hierarchical domain. The security list is created by adding the security operation to the security list, applying the security operation to one of the multiple domains, and adding members to the security list.

32 Claims, 19 Drawing figures

Exemplary Claim Number: 12
Number of Drawing Sheets: 17

Full	Title	Citation	Front	Review	Classification	Date	Reference	Page	Page	Claims	Page	Page
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☐ 5. Document ID: US 6826716 B2

L4: Entry 5 of 22

File: USPT

Nov 30, 2004

US-PAT-NO: 6826716
DOCUMENT-IDENTIFIER: US 6826716 B2

TITLE: Test programs for enterprise web applications

DATE-ISSUED: November 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mason; Carlton Keith	Austin	TX		

US-CL-CURRENT: 714/38; 713/202, 717/131

ABSTRACT:

Testing J2EE applications, wherein J2EE applications comprise modules, the testing including identifying (204), from an application deployment descriptor, modules comprised within the J2EE application; identifying, from an identified module, at least one QOS element; and identifying, from the identified QOS element, a software resource to be tested. Typical embodiments further including generating Java test code; identifying, for the software resource to be tested, a user identification and a user password for a user that is a member of a role intended to protect the software resource; and testing the software resource to be tested by use of the Java test code, including passing as parameters to the Java test code at run time the user identification and user password.

30 Claims, 7 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Page	Page	Claims	Page	Page
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☐ 6. Document ID: US 6816882 B1

L4: Entry 6 of 22

File: USPT

Nov 9, 2004

US-PAT-NO: 6816882
DOCUMENT-IDENTIFIER: US 6816882 B1

TITLE: System and method for automatically negotiating license agreements and installing arbitrary user-specified applications on application service providers

DATE-ISSUED: November 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Conner; Michael Haden	Austin	TX		
Vicknair; Wayne Elmo	Austin	TX		
Becker; Craig Henry	Austin	TX		
Nicholas; Stewart E.	Austin	TX		

US-CL-CURRENT: 709/203; 709/217, 709/219

ABSTRACT:

A user contracts with an application service provider for hosting a needed application. By contracting with a service provider the user may interact with the application by using only a thin client rather than maintaining a thick client. The user rents an application from either the service provider or an independent application provider. If the user procures the application from an application provider, the application provider negotiates hosting terms with the service provider prior to installing the application into the service provider's warehouse. The application provider also checks that the services provided by the service provider meet the minimum requirements of the application. Once installed, the service provider may offer the application to other users along with services for the application. The user may procure additional services from the service provider for supporting the application. A user can then dynamically download the application "on-demand".

16 Claims, 9 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Fig. 1	Fig. 2	Fig. 3	Claims	EndC	Draw. C
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ABSTRACT:

A method of automatically performing a component test at any number of locations in a distributed environment is disclosed. In general, in order to assure compatibility of the various components in an enterprise computing system, a service test is created as part of a compatibility test suite and passed to a test application server having a test application program. The test application program includes a generic vehicle class that includes a plurality of vehicle class invokers each of which is used to implement each of the object types that are run in each of a plurality of containers. During the build process of the CTS, each service test is automatically packaged with each of the appropriate vehicle classes so that each can be deployed into and run within the associated container.

20 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Figures	Claims	Index	Drawings
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☐ 8. Document ID: US 6746120 B2

L4: Entry 8 of 22

File: USPT

Jun 8, 2004

US-PAT-NO: 6746120
DOCUMENT-IDENTIFIER: US 6746120 B2

TITLE: Method and system for ordering customized cosmetic contact lenses

DATE-ISSUED: June 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Broderick; Daniel F.	La Jolla	CA		
Foppe; Ann T.	Elmurst	IL		
Santilli; James	Oak Park	IL		
Tucker; Robert Carey	Arlington Heights	IL		

US-CL-CURRENT: 351/177; 351/160R, 351/162

ABSTRACT:

A method of configuring and ordering a customized contact lens for a user. The method includes the steps of displaying a template eye image to assist the user in visualizing selected options for a customized contact lens, and displaying a plurality of contact lens selection options to the user. The information includes a plurality of selectable lens colors and lens design patterns. The method also includes the steps of sending an ordering request to order a contact lens incorporating lens colors and lens design patterns selected by the user, receiving the ordering request, and manufacturing a contact lens incorporating the lens colors and lens design patterns selected by the user.

33 Claims, 14 Drawing figures
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGS	Draw
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☐ 9. Document ID: US 6745250 B1

L4: Entry 9 of 22

File: USPT

Jun 1, 2004

US-PAT-NO: 6745250

DOCUMENT-IDENTIFIER: US 6745250 B1

TITLE: Finding named EJB homes via life cycle support

DATE-ISSUED: June 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cocks; Stephen James	Bournemouth			GB
Huang; Wei-Li Alexander	Austin	TX		
Knutson; James Irwin	Austin	TX		
Newcombe; Russell Ley	Round Rock	TX		

US-CL-CURRENT: 719/316; 707/10

ABSTRACT:

A method and implementing system are provided in which CORBA (Common Object Request Broker Architecture) Life Cycle Service FactoryFinder capabilities are combined with CORBA Naming Service resolve operations on a Naming Context. The methodology allows EJBHomes in a distributed network to be found using CORBA Life Cycle Services while maintaining support for the EJB (Enterprise Java Bean) programming model of using JNDI (Java Naming and Directory Interface) lookup calls to locate EJBHomes. Usage of Life Cycle Services in an EJB environment for finding EJBHomes by using Naming interfaces is enabled while using Life Cycle Service semantics. An exemplary embodiment is provided to allow deployment in different environments (including environments without Life Cycle support) and reconfiguration of the FactoryFinder being used, without requiring changes to source code.

16 Claims, 7 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGS	Draw
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☐ 10. Document ID: US 6721747 B2

L4: Entry 10 of 22

File: USPT

Apr 13, 2004

US-PAT-NO: 6721747

DOCUMENT-IDENTIFIER: US 6721747 B2

may be passed between enterprises via business-to-business connection, e-mail, telephone, or facsimile. Data may be extracted from the identifier for display or programmatic use without accessing the resource, thus avoiding unnecessary data access and transfer

25 Claims, 6 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Index	Drawings
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☐ 12. Document ID: US 6687702 B2

L4: Entry 12 of 22

File: USPT

Feb 3, 2004

US-PAT-NO: 6687702
DOCUMENT-IDENTIFIER: US 6687702 B2

TITLE: Methodology providing high-speed shared memory access between database middle tier and database server

DATE-ISSUED: February 3, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vaitheeswaran; Girish	Fremont	CA		
Ghosh; Prasanta	Alameda	CA		
Fatemi; Taghi	Puteaux			FR

US-CL-CURRENT: 707/10; 707/104.1

ABSTRACT:

A multi-tier database system is modified such that a middle-tier application server (EJB server) and a database server run on the same host computer and communicate via shared-memory interprocess communication. The system includes a database (e.g., JDBC) driver thread that attaches to the database server, specifically by attaching to the database server's shared memory segment. Operation of the JDBC driver is modified to provide direct access between the middle tier (i.e., EJB server) and the database server, when the two are operating on the same host computer.

43 Claims, 8 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Index	Drawings
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☐ 13. Document ID: US 6681232 B1

L4: Entry 13 of 22

File: USPT

Jan 20, 2004

US-PAT-NO: 6681232
DOCUMENT-IDENTIFIER: US 6681232 B1

TITLE: Operations and provisioning systems for service level management in an extended-area data communications network

DATE-ISSUED: January 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sistanizadeh; Kamran	San Francisco	CA		
Kamali; Masoud M.	San Francisco	CA		

US-CL-CURRENT: 707/104.1; 707/103R, 709/224, 709/226, 718/104

ABSTRACT:

An automated service level manager (SLM) provides operations support for wide-area data communication services offered via regional IP-Over Ethernet on fiber networks. The SLM comprises a suite of software components and associated hardware running the software, to communicate with agents throughout the networks, to accumulate various network operations data for reports and alarms and to provide instructions to control network operations. The SLM preferably offers a web server type user interface. This interface enables access by technical personnel of the carrier, for example from a network operations center. This interface also offers access to customers having or seeking service through the network.

44 Claims, 12 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference	Fig. No.	Doc. No.	Claims	Index	Draw. No.
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☐ 14. Document ID: US 6675227 B1

L4: Entry 14 of 22

File: USPT

Jan 6, 2004

US-PAT-NO: 6675227
DOCUMENT-IDENTIFIER: US 6675227 B1

TITLE: Method for providing a service implementation for both EJB and non-EJB environments

DATE-ISSUED: January 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gavrilo; Galina	Riga			LV
Tost; Andre	Rochester	MN		
Vilnis; Dzintars	Riga			LV

US-CL-CURRENT: 719/316; 719/331, 719/332

ABSTRACT:

A method and object-oriented computing system in which a Java.TM. implementation of a service is provided dynamically at runtime via a Java.TM. interface for the service in accordance with the needs of a client computer in one of two varieties: an Enterprise Java Beans.TM. (EJB) implementation or, alternatively, a non-EJB implementation. Thus, the same service is accessible, without requiring any programming code changes, to both clients operating in an EJB environment and clients operating in a non-EJB environment. The client accesses the service through two non-EJB interfaces, one for the service (object or bean) itself, and the other for an abstract factory class. Both of these client interfaces are non-EJB to avoid dependence upon client access to EJB packages, which may exist for some clients and not for others. These interfaces operate at runtime to provide a non-EJB implementation for the service in the event the client accessing the service is not operating in an EJB environment and, alternatively, to provide an EJB implementation for the service in the event that the client accessing the service is operating in an EJB environment.

15 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Drawings	Other
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☐ 15. Document ID: US 6665861 B1

L4: Entry 15 of 22

File: USPT

Dec 16, 2003

US-PAT-NO: 6665861

DOCUMENT-IDENTIFIER: US 6665861 B1

**** See image for Certificate of Correction ****

TITLE: Apparatus and method for providing metadata for the creation of semi-deployed enterprise java beans

DATE-ISSUED: December 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Francis; Timothy Marc	Keswick			CA
Rich; Lawrence Scott	Apex	NC		

US-CL-CURRENT: 717/120

ABSTRACT:

An apparatus, method, and system for generating semi-deployed enterprise java beans is provided. The apparatus, method and system make use of metadata to identify an intended deployment of an undeployed enterprise java bean. The metadata may be packaged with the undeployed enterprise java bean into a java archive file which is provided to a deployment tool either on the same computing device or a different computing device. The deployment tool may make use of the metadata when generating deployment classes for the undeployed enterprise java bean. However, if the deployment tool is unable to recognize the metadata or the use of the metadata is

not wanted, the deployment tool may also deploy the undeployed enterprise java bean in a conventional manner.

22 Claims, 11 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw
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☐ 16. Document ID: US 6643652 B2

L4: Entry 16 of 22

File: USPT

Nov 4, 2003

US-PAT-NO: 6643652
DOCUMENT-IDENTIFIER: US 6643652 B2

TITLE: Method and apparatus for managing data exchange among systems in a network

DATE-ISSUED: November 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Helgeson; Christopher S.	Mountain View	CA		
Lipkin; Daniel S.	Belmont	CA		
Larson; Robert S.	Redwood City	CA		
Panuganti; Srinivas	Sunnyvale	CA		

US-CL-CURRENT: 707/10; 707/104.1, 709/202, 709/203

ABSTRACT:

The present mechanism provides a solution to the needs described above through a system and method for managing data exchange among systems in a network. The systems and methods of the present mechanism translate data from a system specific local format to a generic interchange format object, and vice versa, with predefined stylesheets using generic components and a system specific service components which utilize a native application programming interface of the specific local system.

31 Claims, 18 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 17

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw
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☐ 17. Document ID: US 6633889 B2

L4: Entry 17 of 22

File: USPT

Oct 14, 2003

US-PAT-NO: 6633889

DOCUMENT-IDENTIFIER: US 6633889 B2

TITLE: Mapping persistent data in multiple data sources into a single object-oriented component

DATE-ISSUED: October 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dessloch; Stefan	San Jose	CA		
Saracco; Cynthia Maro	San Jose	CA		
Wolfson; Charles Daniel	Austin	TX		

US-CL-CURRENT: 707/103Y; 707/103R, 707/103Z

ABSTRACT:

A method, apparatus and article of manufacture is provided for mapping persistent data objects residing in multiple data sources into a single, reusable software component accessible to an object-oriented programming language application performed by the computer, for multi-database access to data that may be physically distributed and stored in disparate DBMSs, each stored in an electronic storage device coupled to the computer. The method has steps for identifying data objects in multiple data sources, employing a multi-database software facility for connecting to the data sources containing the data objects, and registering the data objects with the multi-database software facility, creating a single virtual data object consolidating multiple attributes from the registered data objects, and establishing a connection to the multi-database software facility for referencing the virtual data object as though it was a single real data object. It also has a step for wrapping this virtual data object as a reusable software component accessible directly from object-oriented programming language applications.

27 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	FIG. 1	FIG. 2	FIG. 3	FIG. 4	FIG. 5	FIG. 6	FIG. 7	FIG. 8	FIG. 9	FIG. 10	FIG. 11	FIG. 12	FIG. 13	FIG. 14	FIG. 15	FIG. 16	FIG. 17	FIG. 18	FIG. 19	FIG. 20	FIG. 21	FIG. 22	FIG. 23	FIG. 24	FIG. 25	FIG. 26	FIG. 27	FIG. 28	FIG. 29	FIG. 30	FIG. 31	FIG. 32	FIG. 33	FIG. 34	FIG. 35	FIG. 36	FIG. 37	FIG. 38	FIG. 39	FIG. 40	FIG. 41	FIG. 42	FIG. 43	FIG. 44	FIG. 45	FIG. 46	FIG. 47	FIG. 48	FIG. 49	FIG. 50	FIG. 51	FIG. 52	FIG. 53	FIG. 54	FIG. 55	FIG. 56	FIG. 57	FIG. 58	FIG. 59	FIG. 60	FIG. 61	FIG. 62	FIG. 63	FIG. 64	FIG. 65	FIG. 66	FIG. 67	FIG. 68	FIG. 69	FIG. 70	FIG. 71	FIG. 72	FIG. 73	FIG. 74	FIG. 75	FIG. 76	FIG. 77	FIG. 78	FIG. 79	FIG. 80	FIG. 81	FIG. 82	FIG. 83	FIG. 84	FIG. 85	FIG. 86	FIG. 87	FIG. 88	FIG. 89	FIG. 90	FIG. 91	FIG. 92	FIG. 93	FIG. 94	FIG. 95	FIG. 96	FIG. 97	FIG. 98	FIG. 99	FIG. 100	FIG. 101	FIG. 102	FIG. 103	FIG. 104	FIG. 105	FIG. 106	FIG. 107	FIG. 108	FIG. 109	FIG. 110	FIG. 111	FIG. 112	FIG. 113	FIG. 114	FIG. 115	FIG. 116	FIG. 117	FIG. 118	FIG. 119	FIG. 120	FIG. 121	FIG. 122	FIG. 123	FIG. 124	FIG. 125	FIG. 126	FIG. 127	FIG. 128	FIG. 129	FIG. 130	FIG. 131	FIG. 132	FIG. 133	FIG. 134	FIG. 135	FIG. 136	FIG. 137	FIG. 138	FIG. 139	FIG. 140	FIG. 141	FIG. 142	FIG. 143	FIG. 144	FIG. 145	FIG. 146	FIG. 147	FIG. 148	FIG. 149	FIG. 150	FIG. 151	FIG. 152	FIG. 153	FIG. 154	FIG. 155	FIG. 156	FIG. 157	FIG. 158	FIG. 159	FIG. 160	FIG. 161	FIG. 162	FIG. 163	FIG. 164	FIG. 165	FIG. 166	FIG. 167	FIG. 168	FIG. 169	FIG. 170	FIG. 171	FIG. 172	FIG. 173	FIG. 174	FIG. 175	FIG. 176	FIG. 177	FIG. 178	FIG. 179	FIG. 180	FIG. 181	FIG. 182	FIG. 183	FIG. 184	FIG. 185	FIG. 186	FIG. 187	FIG. 188	FIG. 189	FIG. 190	FIG. 191	FIG. 192	FIG. 193	FIG. 194	FIG. 195	FIG. 196	FIG. 197	FIG. 198	FIG. 199	FIG. 200	FIG. 201	FIG. 202	FIG. 203	FIG. 204	FIG. 205	FIG. 206	FIG. 207	FIG. 208	FIG. 209	FIG. 210	FIG. 211	FIG. 212	FIG. 213	FIG. 214	FIG. 215	FIG. 216	FIG. 217	FIG. 218	FIG. 219	FIG. 220	FIG. 221	FIG. 222	FIG. 223	FIG. 224	FIG. 225	FIG. 226	FIG. 227	FIG. 228	FIG. 229	FIG. 230	FIG. 231	FIG. 232	FIG. 233	FIG. 234	FIG. 235	FIG. 236	FIG. 237	FIG. 238	FIG. 239	FIG. 240	FIG. 241	FIG. 242	FIG. 243	FIG. 244	FIG. 245	FIG. 246	FIG. 247	FIG. 248	FIG. 249	FIG. 250	FIG. 251	FIG. 252	FIG. 253	FIG. 254	FIG. 255	FIG. 256	FIG. 257	FIG. 258	FIG. 259	FIG. 260	FIG. 261	FIG. 262	FIG. 263	FIG. 264	FIG. 265	FIG. 266	FIG. 267	FIG. 268	FIG. 269	FIG. 270	FIG. 271	FIG. 272	FIG. 273	FIG. 274	FIG. 275	FIG. 276	FIG. 277	FIG. 278	FIG. 279	FIG. 280	FIG. 281	FIG. 282	FIG. 283	FIG. 284	FIG. 285	FIG. 286	FIG. 287	FIG. 288	FIG. 289	FIG. 290	FIG. 291	FIG. 292	FIG. 293	FIG. 294	FIG. 295	FIG. 296	FIG. 297	FIG. 298	FIG. 299	FIG. 300	FIG. 301	FIG. 302	FIG. 303	FIG. 304	FIG. 305	FIG. 306	FIG. 307	FIG. 308	FIG. 309	FIG. 310	FIG. 311	FIG. 312	FIG. 313	FIG. 314	FIG. 315	FIG. 316	FIG. 317	FIG. 318	FIG. 319	FIG. 320	FIG. 321	FIG. 322	FIG. 323	FIG. 324	FIG. 325	FIG. 326	FIG. 327	FIG. 328	FIG. 329	FIG. 330	FIG. 331	FIG. 332	FIG. 333	FIG. 334	FIG. 335	FIG. 336	FIG. 337	FIG. 338	FIG. 339	FIG. 340	FIG. 341	FIG. 342	FIG. 343	FIG. 344	FIG. 345	FIG. 346	FIG. 347	FIG. 348	FIG. 349	FIG. 350	FIG. 351	FIG. 352	FIG. 353	FIG. 354	FIG. 355	FIG. 356	FIG. 357	FIG. 358	FIG. 359	FIG. 360	FIG. 361	FIG. 362	FIG. 363	FIG. 364	FIG. 365	FIG. 366	FIG. 367	FIG. 368	FIG. 369	FIG. 370	FIG. 371	FIG. 372	FIG. 373	FIG. 374	FIG. 375	FIG. 376	FIG. 377	FIG. 378	FIG. 379	FIG. 380	FIG. 381	FIG. 382	FIG. 383	FIG. 384	FIG. 385	FIG. 386	FIG. 387	FIG. 388	FIG. 389	FIG. 390	FIG. 391	FIG. 392	FIG. 393	FIG. 394	FIG. 395	FIG. 396	FIG. 397	FIG. 398	FIG. 399	FIG. 400	FIG. 401	FIG. 402	FIG. 403	FIG. 404	FIG. 405	FIG. 406	FIG. 407	FIG. 408	FIG. 409	FIG. 410	FIG. 411	FIG. 412	FIG. 413	FIG. 414	FIG. 415	FIG. 416	FIG. 417	FIG. 418	FIG. 419	FIG. 420	FIG. 421	FIG. 422	FIG. 423	FIG. 424	FIG. 425	FIG. 426	FIG. 427	FIG. 428	FIG. 429	FIG. 430	FIG. 431	FIG. 432	FIG. 433	FIG. 434	FIG. 435	FIG. 436	FIG. 437	FIG. 438	FIG. 439	FIG. 440	FIG. 441	FIG. 442	FIG. 443	FIG. 444	FIG. 445	FIG. 446	FIG. 447	FIG. 448	FIG. 449	FIG. 450	FIG. 451	FIG. 452	FIG. 453	FIG. 454	FIG. 455	FIG. 456	FIG. 457	FIG. 458	FIG. 459	FIG. 460	FIG. 461	FIG. 462	FIG. 463	FIG. 464	FIG. 465	FIG. 466	FIG. 467	FIG. 468	FIG. 469	FIG. 470	FIG. 471	FIG. 472	FIG. 473	FIG. 474	FIG. 475	FIG. 476	FIG. 477	FIG. 478	FIG. 479	FIG. 480	FIG. 481	FIG. 482	FIG. 483	FIG. 484	FIG. 485	FIG. 486	FIG. 487	FIG. 488	FIG. 489	FIG. 490	FIG. 491	FIG. 492	FIG. 493	FIG. 494	FIG. 495	FIG. 496	FIG. 497	FIG. 498	FIG. 499	FIG. 500	FIG. 501	FIG. 502	FIG. 503	FIG. 504	FIG. 505	FIG. 506	FIG. 507	FIG. 508	FIG. 509	FIG. 510	FIG. 511	FIG. 512	FIG. 513	FIG. 514	FIG. 515	FIG. 516	FIG. 517	FIG. 518	FIG. 519	FIG. 520	FIG. 521	FIG. 522	FIG. 523	FIG. 524	FIG. 525	FIG. 526	FIG. 527	FIG. 528	FIG. 529	FIG. 530	FIG. 531	FIG. 532	FIG. 533	FIG. 534	FIG. 535	FIG. 536	FIG. 537	FIG. 538	FIG. 539	FIG. 540	FIG. 541	FIG. 542	FIG. 543	FIG. 544	FIG. 545	FIG. 546	FIG. 547	FIG. 548	FIG. 549	FIG. 550	FIG. 551	FIG. 552	FIG. 553	FIG. 554	FIG. 555	FIG. 556	FIG. 557	FIG. 558	FIG. 559	FIG. 560	FIG. 561	FIG. 562	FIG. 563	FIG. 564	FIG. 565	FIG. 566	FIG. 567	FIG. 568	FIG. 569	FIG. 570	FIG. 571	FIG. 572	FIG. 573	FIG. 574	FIG. 575	FIG. 576	FIG. 577	FIG. 578	FIG. 579	FIG. 580	FIG. 581	FIG. 582	FIG. 583	FIG. 584	FIG. 585	FIG. 586	FIG. 587	FIG. 588	FIG. 589	FIG. 590	FIG. 591	FIG. 592	FIG. 593	FIG. 594	FIG. 595	FIG. 596	FIG. 597	FIG. 598	FIG. 599	FIG. 600	FIG. 601	FIG. 602	FIG. 603	FIG. 604	FIG. 605	FIG. 606	FIG. 607	FIG. 608	FIG. 609	FIG. 610	FIG. 611	FIG. 612	FIG. 613	FIG. 614	FIG. 615	FIG. 616	FIG. 617	FIG. 618	FIG. 619	FIG. 620	FIG. 621	FIG. 622	FIG. 623	FIG. 624	FIG. 625	FIG. 626	FIG. 627	FIG. 628	FIG. 629	FIG. 630	FIG. 631	FIG. 632	FIG. 633	FIG. 634	FIG. 635	FIG. 636	FIG. 637	FIG. 638	FIG. 639	FIG. 640	FIG. 641	FIG. 642	FIG. 643	FIG. 644	FIG. 645	FIG. 646	FIG. 647	FIG. 648	FIG. 649	FIG. 650	FIG. 651	FIG. 652	FIG. 653	FIG. 654	FIG. 655	FIG. 656	FIG. 657	FIG. 658	FIG. 659	FIG. 660	FIG. 661	FIG. 662	FIG. 663	FIG. 664	FIG. 665	FIG. 666	FIG. 667	FIG. 668	FIG. 669	FIG. 670	FIG. 671	FIG. 672	FIG. 673	FIG. 674	FIG. 675	FIG. 676	FIG. 677	FIG. 678	FIG. 679	FIG. 680	FIG. 681	FIG. 682	FIG. 683	FIG. 684	FIG. 685	FIG. 686	FIG. 687	FIG. 688	FIG. 689	FIG. 690	FIG. 691	FIG. 692	FIG. 693	FIG. 694	FIG. 695	FIG. 696	FIG. 697	FIG. 698	FIG. 699	FIG. 700	FIG. 701	FIG. 702	FIG. 703	FIG. 704	FIG. 705	FIG. 706	FIG. 707	FIG. 708	FIG. 709	FIG. 710	FIG. 711	FIG. 712	FIG. 713	FIG. 714	FIG. 715	FIG. 716	FIG. 717	FIG. 718	FIG. 719	FIG. 720	FIG. 721	FIG. 722	FIG. 723	FIG. 724	FIG. 725	FIG. 726	FIG. 727	FIG. 728	FIG. 729	FIG. 730	FIG. 731	FIG. 732	FIG. 733	FIG. 734	FIG. 735	FIG. 736	FIG. 737	FIG. 738	FIG. 739	FIG. 740	FIG. 741	FIG. 742	FIG. 743	FIG. 744	FIG. 745	FIG. 746	FIG. 747	FIG. 748	FIG. 749	FIG. 750	FIG. 751	FIG. 752	FIG. 753	FIG. 754	FIG. 755	FIG. 756	FIG. 757	FIG. 758	FIG. 759	FIG. 760	FIG. 761	FIG. 762	FIG. 763	FIG. 764	FIG. 765	FIG. 766	FIG. 767	FIG. 768	FIG. 769	FIG. 770	FIG. 771	FIG. 772	FIG. 773	FIG. 774	FIG. 775	FIG. 776	FIG. 777	FIG. 778	FIG. 779	FIG. 780	FIG. 781	FIG. 782	FIG. 783	FIG. 784	FIG. 785	FIG. 786	FIG. 787	FIG. 788	FIG. 789	FIG. 790	FIG. 791	FIG. 792	FIG. 793	FIG. 794	FIG. 795	FIG. 796	FIG. 797	FIG. 798	FIG. 799	FIG. 800	FIG. 801	FIG. 802	FIG. 803	FIG. 804	FIG. 805	FIG. 806	FIG. 807	FIG. 808	FIG. 809	FIG. 810	FIG. 811	FIG. 812	FIG. 813	FIG. 814	FIG. 815	FIG. 816	FIG. 817	FIG. 818	FIG. 819	FIG. 820	FIG. 821	FIG. 822	FIG. 823	FIG. 824	FIG. 825	FIG. 826	FIG. 827	FIG. 828	FIG. 829	FIG. 830	FIG. 831	FIG. 832	FIG. 833	FIG. 834	FIG. 835	FIG. 836	FIG. 837	FIG. 838	FIG. 839	FIG. 840	FIG. 841	FIG. 842	FIG. 843	FIG. 844	FIG. 845	FIG. 846	FIG. 847	FIG. 848	FIG. 849	FIG. 850	FIG. 851	FIG. 852	FIG. 853	FIG. 854	FIG. 855	FIG. 856	FIG. 857	FIG. 858	FIG. 859	FIG. 860	FIG. 861	FIG. 862	FIG. 863	FIG. 864	FIG. 865	FIG. 866	FIG. 867	FIG. 868	FIG. 869	FIG. 870	FIG. 871	FIG. 872	FIG. 873	FIG. 874	FIG. 875	FIG. 876	FIG. 877	FIG. 878	FIG. 879	FIG. 880	FIG. 881	FIG. 882	FIG. 883	FIG. 884	FIG. 885	FIG. 886	FIG. 887	FIG. 888	FIG. 889	FIG. 890	FIG. 891	FIG. 892	FIG. 893	FIG. 894	FIG. 895	FIG. 896	FIG. 897	FIG. 898	FIG. 899	FIG. 900	FIG. 901	FIG. 902	FIG. 903	FIG. 904	FIG. 905	FIG. 906	FIG. 907	FIG. 908	FIG. 909	FIG. 910	FIG. 911	FIG. 912	FIG. 913	FIG. 914	FIG. 915	FIG. 916	FIG. 917	FIG. 918	FIG. 919	FIG. 920	FIG. 921	FIG. 922	FIG. 923	FIG. 924	FIG. 925	FIG. 926	FIG. 927	FIG. 928	FIG. 929	FIG. 930	FIG. 931	FIG. 932	FIG. 933	FIG. 934	FIG. 935	FIG. 936	FIG. 937	FIG. 938	FIG. 939	FIG. 940	FIG. 941	FIG. 942	FIG. 943	FIG. 944	FIG. 945	FIG. 946	FIG. 947	FIG. 948	FIG. 949	FIG. 950	FIG. 951	FIG. 952	FIG. 953	FIG. 954	FIG. 955	FIG. 956	FIG. 957	FIG. 958	FIG. 959	FIG. 960	FIG. 961	FIG. 962	FIG. 963	FIG. 964	FIG. 965	FIG. 966	FIG. 967	FIG. 968	FIG. 969	FIG. 970	FIG. 971	FIG. 972	FIG. 973	FIG. 974	FIG. 975	FIG. 976	FIG. 977	FIG. 978	FIG. 979	FIG. 980	FIG. 981	FIG. 982	FIG. 983	FIG. 984	FIG. 985	FIG. 986	FIG. 987	FIG. 988	FIG. 989	FIG. 990	FIG. 991	FIG. 992	FIG. 993	FIG. 994	FIG. 995	FIG. 996	FIG. 997	FIG. 998	FIG. 999	FIG. 1000	FIG. 1001	FIG. 1002	FIG. 1003	FIG. 1004	FIG. 1005	FIG. 1006	FIG. 1007	FIG. 1008	FIG. 1009	FIG. 1010	FIG. 1011	FIG. 1012	FIG. 1013	FIG. 1014	FIG. 1015	FIG. 1016	FIG. 1017	FIG. 1018	FIG. 1019	FIG. 1020	FIG. 1021	FIG. 1022	FIG. 1023	FIG. 1024	FIG. 1025	FIG. 1026	FIG. 1027	FIG. 1028	FIG. 1029	FIG. 1030	FIG. 1031	FIG. 1032	FIG. 1033	FIG. 1034	FIG. 1035	FIG. 1036	FIG. 1037	FIG. 1038	FIG. 1039	FIG. 1040	FIG. 1041	FIG. 1042	FIG. 1043	FIG. 1044	FIG. 1045	FIG. 1046	FIG. 1047	FIG. 1048	FIG. 1049	FIG. 1050	FIG. 1051	FIG. 1052	FIG. 1053	FIG. 1054	FIG. 1055	
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Flannery; George F. Burnsville MN
Scott; James D. Eagan MN

US-CL-CURRENT: 701/208; 709/219, 717/168

ABSTRACT:

Systems that distribute map data and related map services are vital to companies in many industries, for example, telecommunications, trucking, and national defense. These systems typically comprise a computer, known as a server, which retrieves the map data, and a computer, known as a client, which electronically requests and receives map data from the server over a computer network, such as the Internet. Servers in these systems often suffer from at least two problems: first, the slow delivery of the map data and related services to clients, and second, the inability to operate in different modes with different types of clients. Accordingly, the inventors devised servers, systems, and related methods for rapidly delivering map data to many types of client, ranging from mobile telephones and personal digital assistants to workstations. To support multi-modal operations with at least two clients, an exemplary system includes a map server having two or more client-mode software modules or programs that govern how the server interacts with the clients. The first client, using an appropriate network address, links to the first program and receives a copy of several mapping objects, enabling the first client to provide certain map functions independent of the server. The second client links to the server using a different network address and receives proxy mapping objects, instead of the actual mapping objects, enabling the second client to work with the server to provide the map functions. The exemplary system also implements client-side and server-side caching of map data, and expandable map service pools, all promoting rapid delivery of map data and services.

62 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Drawings
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☐ 19. Document ID: US 6591272 B1

L4: Entry 19 of 22

File: USPT

Jul 8, 2003

US-PAT-NO: 6591272

DOCUMENT-IDENTIFIER: US 6591272 B1

TITLE: Method and apparatus to make and transmit objects from a database on a server computer to a client computer

DATE-ISSUED: July 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Williams; Mark	Capitola	CA		

US-CL-CURRENT: 707/102; 707/100, 707/101

ABSTRACT:

Contents of databases are translated into objects by reading the database schema metadata to determine data interrelationships and create objects with nominal human to computer interaction. Metadata for any number of databases is normalized in a standardized view. Skeleton code templates representative of final classes to be produced are accessed and merged with the standardized view. Source code for the class of the objects is then generated. At runtime, data objects are then produced by encapsulating the metadata and data values. Communication between database instances and a client computer consists of metadata and database row values., Rows from database tables and the corresponding metadata are transmitted from the server to the client computer in one logical network operation. The final distributed objects are then assembled into the optimal format required by the client computer. To update, delete or create new persistent objects, the reverse process occurs.

8 Claims, 22 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 22

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Drawings
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☐ 20. Document ID: US 6574736 B1

L4: Entry 20 of 22

File: USPT

Jun 3, 2003

US-PAT-NO: 6574736

DOCUMENT-IDENTIFIER: US 6574736 B1

**** See image for Certificate of Correction ****

TITLE: Composable roles

DATE-ISSUED: June 3, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Andrews; Anthony D.	Redmond	WA		

US-CL-CURRENT: 713/201; 707/100, 709/227, 719/332

ABSTRACT:

An application developer grants access privileges to application processing services in an object-based application by defining logical classes of users called roles. When the application is deployed on a host computer system, an administrator populates the roles with users and groups recognized by the host computer system. At runtime, a user is not permitted access to a processing service unless the user is a member of a permitted role for the processing service. To ease administration, two or more roles can be composed. In one implementation, roles are associated with a separate composite role. The administrator can then populate the composite role instead of individually populating each of the roles associated with the composite role. In another implementation, the administrator can specify that a role follows another role; user identities in the followed role are automatically considered members of the following role. Additional features include an installation utility to help compose roles when installing an application on the host computer system.

An exemplary security framework for implementing composable roles relieves application developers from including security logic in application components.

27 Claims, 20 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 20

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Page	Draw
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☐ 21. Document ID: US 6567809 B2

L4: Entry 21 of 22

File: USPT

May 20, 2003

US-PAT-NO: 6567809
DOCUMENT-IDENTIFIER: US 6567809 B2

TITLE: Disabling and reloading enterprise java beans using database trigger programs

DATE-ISSUED: May 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Santosuosso; John Matthew	Rochester	MN		

US-CL-CURRENT: 707/10; 709/246, 717/107

ABSTRACT:

Methods and systems for maintaining coherency of data such as between data contained in executable code and a source location of the data (e.g., a table of a database). In a particular embodiment, an enterprise Java Bean (EJB) is hydrated with data retrieved from a database data structure having a trigger defined thereon. The trigger is fired in response to modifying the data structure. In response to firing the trigger, it is determined whether an invalidation criterion for the EJB has been satisfied. If so, the EJB is invalidated.

32 Claims, 8 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Page	Draw
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☐ 22. Document ID: US 6167564 A

L4: Entry 22 of 22

File: USPT

Dec 26, 2000

US-PAT-NO: 6167564
DOCUMENT-IDENTIFIER: US 6167564 A

TITLE: Software system development framework

DATE-ISSUED: December 26, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fontana; James Albert	Mission Viejo	CA		
Iyengar; Sridhar Srinivasa	Irvine	CA		
Pitchford; Anthony Reginald	Mission Viejo	CA		
Smith; Norman Roy	Lake Forest	CA		
Tolbert; Douglas Marshall	Newport Beach	CA		

US-CL-CURRENT: 717/104; 717/114, 717/120

ABSTRACT:

A system and method in a computer system for integrating software development tools and applications into the computer system in order to build, deploy and maintain enterprise business process applications in a heterogeneous development framework. Integration of the applications and software development tools are achieved through integration of the key elements of the computer system which are business models, domain models and components. In the process of integration the origin of a first newly developed/modified/existing business model is traced to a first newly developed/modified/existing domain model and these models are linked together. Next, the constituent components of a second newly developed/modified/existing domain model are traced to a newly developed/modified/existing set of components created and linked together. The system also involves recovery of constituent components from a newly developed/modified/existing system in a first heterogeneous environment and those constituent components are reconstructed into usable components inside a third newly developed/modified/existing domain model and are linked together. The process also involves recovery of a fourth newly developed/modified/existing domain model from a second heterogeneous environment and linking it to a second newly developed/modified/existing business model.

1 Claims, 14 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 14

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Index	Drawings
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☐ 1. Document ID: US 6886170 B1

L3: Entry 1 of 32

File: USPT

Apr 26, 2005

US-PAT-NO: 6886170

DOCUMENT-IDENTIFIER: US 6886170 B1

TITLE: Method and apparatus in a data processing system for the issuance and delivery of lightweight requests to concurrent and multiple service providers

DATE-ISSUED: April 26, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bahrs; Peter C.	Austin	TX		
Chancey; Raphael Poole	Austin	TX		
Feigenbaum; Barry Alan	Austin	TX		
Modh; Manish Mahesh	Round Rock	TX		
Sundberg; Sean Michael	Cedar Park	TX		
Woolfrey; John Allen Hubert	Mississauga			CA

US-CL-CURRENT: 719/318; 715/760, 715/764, 717/116

ABSTRACT:

A method and apparatus in a data processing system for managing transactions. A request event is received at a transporter object. The request event includes a target and an indication of how to handle the request event. A destination object is identified within the plurality of destination objects using the request event to form an identified destination object. The request event is sent to the identified destination object, wherein the identified destination object handles the request using the indication and accesses the target.

21 Claims, 197 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 119

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGS	Drawings
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☐ 2. Document ID: US 6880126 B1

L3: Entry 2 of 32

File: USPT

Apr 12, 2005

US-PAT-NO: 6880126
DOCUMENT-IDENTIFIER: US 6880126 B1

TITLE: Controlling presentation of a GUI, using view controllers created by an application mediator, by identifying a destination to access a target to retrieve data

DATE-ISSUED: April 12, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bahrs; Peter C.	Austin	TX		
Chancey; Raphael Poole	Austin	TX		
Feigenbaum; Barry Alan	Austin	TX		
Modh; Manish Mahesh	Round Rock	TX		
Sundberg; Sean Michael	Cedar Park	TX		
Woolfrey; John Allen Hubert	Mississauga			CA
Brown; Michael Wilfrid	Austin	TX		

US-CL-CURRENT: 715/526; 715/781

ABSTRACT:

A method and apparatus of an architectural pattern for creating applications for a data processing system. A graphical user interface is created in which the graphical user interface includes a plurality of components. Processes for presenting the plurality of components and receiving user input are handled by a first set of graphical objects, wherein in response to selected user input, a first event is generated. An application object is created in which the application process controls an order in which the graphical objects present the set of components and process the event and wherein the application generates a second event. A transport object is created in which the transport object processes the second event and forwards the second event for processing to a destination within the plurality of destinations. A plurality of destination objects are created in which each destination object within the plurality of destinations objects handles accessing a destination within the plurality of destinations.

29 Claims, 197 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 119

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Index	Drawings
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☐ 3. Document ID: US 6880084 B1

L3: Entry 3 of 32

File: USPT

Apr 12, 2005

US-PAT-NO: 6880084
DOCUMENT-IDENTIFIER: US 6880084 B1

TITLE: Methods, systems and computer program products for smart card product management

DATE-ISSUED: April 12, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brittenham; Peter J.	Apex	NC		
Henson; Larry W.	Apex	NC		
Kleinert; Stephen R.	Raleigh	NC		

US-CL-CURRENT: 713/173; 705/66, 713/200

ABSTRACT:

Methods, systems and computer program products are provided for managing a smart card product by providing a plurality of generic definitions, at least a portion of which have a predefined relationship to others of the generic definitions, so as to provide a hierarchy of generic definitions. Generic definitions are selected from the plurality of generic definitions and associated with an instance of a card product definition so as to define characteristics of the smart card product associated with the instance of the card product definition. The selected generic definitions are populated with data associated with the smart card product so as to provide a hierarchy of instances of the generic definitions which define the characteristics of the smart card product. The smart card product is managed utilizing the hierarchy of instances of the generic definitions so as to provide the smart card product having the defined characteristics. Systems for managing smart card products utilizing instances of definitions from the hierarchy of definitions are also provided.

45 Claims, 28 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 28

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	FIGS	Drawings
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☐ 4. Document ID: US 6862711 B1

L3: Entry 4 of 32

File: USPT

Mar 1, 2005

US-PAT-NO: 6862711

DOCUMENT-IDENTIFIER: US 6862711 B1

TITLE: Method and apparatus in a data processing system for providing an interface for non-intrusive observable debugging, tracing, and logging data from execution of an application

DATE-ISSUED: March 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bahrs; Peter C.	Austin	TX		
Feigenbaum; Barry Alan	Austin	TX		
Modh; Manish Mahesh	Round Rock	TX		

US-CL-CURRENT: 715/526; 715/764, 717/108, 717/116, 717/127, 717/128

ABSTRACT:

A method and apparatus in a data processing system for providing an interface to an application for monitoring execution of the application. An event generated by a view controller is detected, wherein the view controller handles presentation of a container in a graphical user interface. A determination is made as to whether the event is an event selected for monitoring. Responsive to the determination that the event is an event selected for monitoring, a request event is generated, wherein the request event includes data from the event and a destination.

7 Claims, 175 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 119

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Index	Drawings
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☐ 5. Document ID: US 6862686 B1

L3: Entry 5 of 32

File: USPT

Mar 1, 2005

US-PAT-NO: 6862686

DOCUMENT-IDENTIFIER: US 6862686 B1

TITLE: Method and apparatus in a data processing system for the separation of role-based permissions specification from its corresponding implementation of its semantic behavior

DATE-ISSUED: March 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bahrs; Peter C.	Austin	TX		
Chancey; Raphael Poole	Austin	TX		
Feigenbaum; Barry Alan	Austin	TX		
Modh; Manish Mahesh	Round Rock	TX		
Sundberg; Sean Michael	Cedar Park	TX		
Woolfrey; John Allen Hubert	Mississauga			CA

US-CL-CURRENT: 713/201; 713/167, 719/315

ABSTRACT:

A method and apparatus in a data processing system for managing permissions in an application. A user input is received at a container handled by a view controller, wherein the user input requests a change in permissions in the application. This user input, may be, for example, a change in security in an application through a login process. A view event describing the user input is generated. The view event is received at an application mediator. Responsive to receiving the view event, by the application mediator, a request event is generated and a permission corresponding to the user input is received. The permission alters an item, which may be in either of both the view controller and the application mediator.

40 Claims, 197 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 119

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Book	Draw
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☐ 6. Document ID: US 6859834 B1

L3: Entry 6 of 32

File: USPT

Feb 22, 2005

US-PAT-NO: 6859834

DOCUMENT-IDENTIFIER: US 6859834 B1

TITLE: System and method for enabling application server request failover

DATE-ISSUED: February 22, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arora; Tej	Sunnyvale	CA		
Das; Saumitra	Santa Clara	CA		

US-CL-CURRENT: 709/227; 709/225, 714/4

ABSTRACT:

System and method for enabling application server request failover. For each application server request to be performed by a client computer, a requesting thread may be operable to utilize a custom wire-level communication protocol. Request failure detection mechanisms may be built into the custom wire-level communication protocol so that a requesting thread detects a failed request much sooner than if the thread utilized a standard communication protocol and relied on the client computer operating system for notification of failed requests. After sending a request to an application server, a requesting thread may be operable to "sleep" and then periodically wake up to poll the application server computer to determine whether the request has failed. If the requesting thread receives a response from the application server computer indicating that the request is not currently being processed, then the requesting thread may re-send the request. Receiving no response to the poll message may indicate that the application server computer is offline, e.g., due to a failure. The requesting thread may redirect the request to another application server computer if necessary.

48 Claims, 25 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 25

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Book	Draw
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☐ 7. Document ID: US 6850893 B2

L3: Entry 7 of 32

File: USPT

Feb 1, 2005

US-PAT-NO: 6850893
DOCUMENT-IDENTIFIER: US 6850893 B2

TITLE: Method and apparatus for an improved security system mechanism in a business applications management system platform

DATE-ISSUED: February 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lipkin; Daniel S.	Belmont	CA		
Mehra; Gaurav	Bandra (w) Mumbai			IN

US-CL-CURRENT: 705/8, 434/118, 434/350, 434/362, 705/76, 705/9, 707/1, 707/103R,
713/182, 713/200, 713/201

ABSTRACT:

The present invention provides a solution to the needs described above through an improved method and apparatus for an improved security system mechanism in a business applications management system platform. The security management system partitions a number of business objects into a number of hierarchical domains. A security list is then created and configured to grant a member the right to perform a security operation on the business object located within the hierarchical domain. The security list is created by adding the security operation to the security list, applying the security operation to one of the multiple domains, and adding members to the security list.

32 Claims, 19 Drawing figures
Exemplary Claim Number: 12
Number of Drawing Sheets: 17

Full	Title	Citation	Front	Review	Classification	Date	Reference					Claims	Index	Drawings
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☐ 8. Document ID: US 6829771 B1

L3: Entry 8 of 32

File: USPT

Dec 7, 2004

US-PAT-NO: 6829771
DOCUMENT-IDENTIFIER: US 6829771 B1

TITLE: Method and apparatus for selectable event dispatching

DATE-ISSUED: December 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bahrs; Peter C.	Austin	TX		
Chancey; Raphael Poole	Austin	TX		
Feigenbaum; Barry Alan	Austin	TX		
Modh; Manish Mahesh	Round Rock	TX		

ABSTRACT:

49 Claims, 225 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 142

[illegible]

Nov 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Conner; Michael Haden	Austin	TX		
Vicknair; Wayne Elmo	Austin	TX		
Becker; Craig Henry	Austin	TX		
Nicholas; Stewart E.	Austin	TX		

ABSTRACT:

<http://westbrs:9000/bin/gate.exe?f=TOC&state=1pbn6p.4&ref=3&dbname=USPT&ESNAM...> 5/15/05

16 Claims, 9 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGS	Draw
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☐ 10. Document ID: US 6816871 B2

L3: Entry 10 of 32

File: USPT

Nov 9, 2004

US-PAT-NO: 6816871

DOCUMENT-IDENTIFIER: US 6816871 B2

TITLE: Delivering output XML with dynamically selectable processing

DATE-ISSUED: November 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Michele C.	San Francisco	CA		

US-CL-CURRENT: 707/104.1; 707/10

ABSTRACT:

In response to a user request, an Identity System generates an Output XML containing raw identity information organized in accordance with a set of XML templates. The Identity System dynamically determines the desired response type and prepares the response from the Output XML. One response type is server-side processing--the Identity System combines the Output XML with XSL stylesheets to generate a HTML response. An alternative response type is client-side processing--the Identity System supplies the user with the Output XML. In further client-side embodiments, the Identity System provides XSL stylesheet references along with the Output XML. Additional embodiments provide for the Identity System to perform customized post-processing on the Output XML.

33 Claims, 77 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 52

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGS	Draw
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☐ 11. Document ID: US 6782508 B1

L3: Entry 11 of 32

File: USPT

Aug 24, 2004

US-PAT-NO: 6782508

DOCUMENT-IDENTIFIER: US 6782508 B1

TITLE: Relaying input from a GUI view controllers to application mediators which created the view controllers

DATE-ISSUED: August 24, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bahrs; Peter C.	Austin	TX		
Modh; Manish Mahesh	Round Rock	TX		

US-CL-CURRENT: 715/526; 715/764

ABSTRACT:

A method and apparatus in a data processing system for processing user input in a graphical user interface. A graphical user interface is presented using a view controller, wherein the view controller handles the user input to the graphical user interface. Responsive to a selected user input, an event is sent to a first application mediator. Responsive to the first application mediator being unable to process the event, the event is sent to a second application mediator for processing, wherein the first application mediator and the second application mediator handle an order in which a set of displays are displayed by a view controller.

18 Claims, 197 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 119

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	FIGS	Drawings
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☐ 12. Document ID: US 6782379 B2

L3: Entry 12 of 32

File: USPT

Aug 24, 2004

US-PAT-NO: 6782379

DOCUMENT-IDENTIFIER: US 6782379 B2

**** See image for Certificate of Correction ****

TITLE: Preparing output XML based on selected programs and XML templates

DATE-ISSUED: August 24, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Michele C.	San Francisco	CA		

US-CL-CURRENT: 707/2; 707/104.1

ABSTRACT:

An Identity System delivers customized request responses that integrate the results of multiple programs. The Identity System receives and translates a user request. The Identity Systems employs a program service to identify all the programs required to complete the request. The Identity System uses a XML data registry to retrieve a XML template and XSL stylesheet for each program. The Identity System executes all of the programs for the request and organizes their results into a

single data structure, based on the templates for each program. The Identity System then applies attribute display characteristics to convert the data structure into a single Output XML. The Output XML can be provided directly to the user or receive further processing using the retrieved XSL stylesheets.

45 Claims, 77 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 52

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Page	Draw
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☐ 13. Document ID: US 6779177 B1

L3: Entry 13 of 32

File: USPT

Aug 17, 2004

US-PAT-NO: 6779177
DOCUMENT-IDENTIFIER: US 6779177 B1

TITLE: Mechanism for cross channel multi-server multi-protocol multi-data model thin clients

DATE-ISSUED: August 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bahrs; Peter C.	Austin	TX		
Chancey; Raphael Poole	Austin	TX		
Feigenbaum; Barry Alan	Austin	TX		
Modh; Manish Mahesh	Round Rock	TX		
Sundberg; Sean Michael	Cedar Park	TX		
Woolfrey; John Allen Hubert	Mississauga			CA

US-CL-CURRENT: 717/173; 717/136, 717/169, 717/170

ABSTRACT:

A method and apparatus in a data processing system for refreshing data in an application. A call is received to update data in the application, wherein the data is destined for a component in the application. A data type is identified for the data. Responsive to the data type being a handled data type, the data is formatted and a refresh is called on the component.

30 Claims, 197 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 119

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Page	Draw
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☐ 14. Document ID: US 6779155 B1

US-PAT-NO: 6779155
DOCUMENT-IDENTIFIER: US 6779155 B1

TITLE: Method and apparatus in a data processing system for the controlling and sequencing of graphical user interface components and mediating access to system services for those components

DATE-ISSUED: August 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bahrs; Peter C.	Austin	TX		
Chancey; Raphael Poole	Austin	TX		
Feigenbaum; Barry Alan	Austin	TX		
Modh; Manish Mahesh	Round Rock	TX		
Sundberg; Sean Michael	Cedar Park	TX		
Woolfrey; John Allen Hubert	Mississauga			CA

US-CL-CURRENT: 715/526; 715/760, 715/803

ABSTRACT:

A method and apparatus in a data processing system for displaying a graphical user interface. A container is displayed in a graphical user interface from a set of containers, wherein a display of the container handled by a view controller from a set of view controllers. Each view controller handles the display of an associated container within the set of containers and user input for the associated container. A display of the set of containers is altered by an application mediator, wherein the set of containers are displayed in an order determined by the application mediator.

14 Claims, 197 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 119

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Drawings
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☐ 15. Document ID: US 6753889 B1

US-PAT-NO: 6753889
DOCUMENT-IDENTIFIER: US 6753889 B1

TITLE: Platform independent business to business messenger adapter generation tool

DATE-ISSUED: June 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Najmi; Farrukh S.	Reading	MA		

US-CL-CURRENT: 715/784; 705/10

ABSTRACT:

A method, apparatus, and system for providing a reliable message adapter generation tool are described. As a method, a first partner schema for the business message and a second partner schema for the business message are first loaded and displayed. A first partner schema link is selected as a current first partner schema link and a second partner schema link is selected as a current second partner schema link. If it is determined that the current first partner schema link correlates to the current second partner schema then the current first partner schema link and the current second partner schema link are link. If there is no correlation, then next links are recursively selected.

18 Claims, 12 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 12

Full	Title	Citation	Front	Review	Classification	Date	Reference	*****	*****	Claims	EOAC	Draw C
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☐ 16. Document ID: US 6748570 B1

L3: Entry 16 of 32

File: USPT

Jun 8, 2004

US-PAT-NO: 6748570

DOCUMENT-IDENTIFIER: US 6748570 B1

TITLE: Sending a view event, and a request event having a class name and a method name

DATE-ISSUED: June 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bahrs; Peter C.	Austin	TX		
Chancey; Raphael Poole	Austin	TX		
Feigenbaum; Barry Alan	Austin	TX		
Modh; Manish Mahesh	Round Rock	TX		
Sundberg; Sean Michael	Cedar Park	TX		
Woolfrey; John Allen Hubert	Mississauga			CA

US-CL-CURRENT: 715/526; 715/764, 717/116, 717/118

ABSTRACT:

A method and apparatus for a data processing system for accessing classes and methods in an object oriented system. Responsive to receiving a selected user input to a container, a view event is sent from a view controller to an application mediator. The view event identifies an action taken to generate the selected user

input. A request is selectively generated based on the view event, wherein the request event includes a major code identifying a class name as a destination and a minor code identifying a method name a function to be invoked. The request event is sent to a transporter. The transporter acts as a router to send the request event to an appropriate destination object from a plurality of destination objects. Responsive to receiving the request event at the transporter, the request event is sent to a destination object within a plurality of destination objects based in the class name. The destination object formats the request event into a form recognizable by the destination associated with the destination object. The destination may be located on a remote data processing system. The request event is used to access the class or method identified in the request event. The access may be, for example, an invocation of the method.

17 Claims, 197 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 119

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Index	Image
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☐ 17. Document ID: US 6748287 B1

L3: Entry 17 of 32

File: USPT

Jun 8, 2004

US-PAT-NO: 6748287

DOCUMENT-IDENTIFIER: US 6748287 B1

**** See image for Certificate of Correction ****

TITLE: Adaptive real-time work-in -progress tracking, prediction, and optimization system for a semiconductor supply chain

DATE-ISSUED: June 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hagen; Klaus ten	Sunnyvale	CA		
Orshansky; Michael E.	Oakland	CA		

US-CL-CURRENT: 700/99; 700/100, 700/95, 705/8

ABSTRACT:

A work-in-progress (WIP) tracking system is used to coordinate a semiconductor supply chain. The WIP tracking receives WIP updates from semiconductor supply chain vendors and generates advanced notices based on an analysis of the WIP updates and predetermined rules. The advanced notices are delivered to downstream vendors to reduce semiconductor manufacturing cycle time and unpredictability between different semiconductor manufacturing phases.

46 Claims, 15 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 15

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Draw	Draw
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☐ 18. Document ID: US 6745187 B2

L3: Entry 18 of 32

File: USPT

Jun 1, 2004

US-PAT-NO: 6745187

DOCUMENT-IDENTIFIER: US 6745187 B2

**** See image for Certificate of Correction ****

TITLE: Environmental permit web portal

DATE-ISSUED: June 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Singer; Gary Brian	Ann Arbor	MI		
Adams; Jeffrey Neal	Alexandria	VA		
Goldwein; Clay Wyatt	McLean	VA		

US-CL-CURRENT: 707/9; 705/7, 707/10, 707/102, 707/104.1, 709/203, 709/218, 715/513

ABSTRACT:

A system is disclosed that allows remote, regulated entity users web based access to authorization data, such as permit data in an environmental regulatory permitting or management system. The user can enter, edit and submit permit and compliance data in the environmental permitting system controlled by a regulating agency in real-time via a web browser over the Internet. The system can also validate submitted information in real-time and allows the user to correct the data. Electronic certification with a unique signature is also performed. Fee payment can be made electronically in real-time through the permitting system with an electronic payments system with a corresponding credit being made to the relevant department general ledger account.

7 Claims, 30 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 30

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Draw	Draw
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☐ 19. Document ID: US 6721747 B2

L3: Entry 19 of 32

File: USPT

Apr 13, 2004

US-PAT-NO: 6721747

DOCUMENT-IDENTIFIER: US 6721747 B2

TITLE: Method and apparatus for an information server

DATE-ISSUED: April 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lipkin; Daniel S.	Belmont	CA		

US-CL-CURRENT: 707/10; 707/100, 707/200, 707/3, 707/8, 709/200, 709/202, 709/217,
709/225, 715/501.1, 715/513, 715/523

ABSTRACT:

The present invention provides a method and apparatus for managing information in an information resource system containing a server, a client, and a database, by generating metadata using an import agent, determining at least one match using a match agent, and dispatching the at least one match or a result associated with the match using a delivery agent. In an aspect of the invention, the metadata may be RDF metadata. In another aspect of the invention, the match agent may determine the match using an RQL query.

24 Claims, 19 Drawing figures
 Exemplary Claim Number: 1
 Number of Drawing Sheets: 17

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	Index	Drawings
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☐ 20. Document ID: US 6704805 B1

L3: Entry 20 of 32

File: USPT

Mar 9, 2004

US-PAT-NO: 6704805

DOCUMENT-IDENTIFIER: US 6704805 B1

TITLE: EJB adaption of MQ integration in componetbroker

DATE-ISSUED: March 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Acker; Liane Elizabeth Haynes	Orange Park	FL		
Chen; Ping	Austin	TX		
Knutson; James Irwin	Austin	TX		
Zhou; Zhong-Yu	Austin	TX		

US-CL-CURRENT: 719/315; 719/314, 719/316

ABSTRACT:

A system, method, and program product, in which a stateful EJB session bean is used as the front end to client calls. In this configuration, a queue is represented by a session bean instance. "Put" and "get" are called on the relevant session bean instances. Thus, for example, a client, instead of first finding a home for a given type of OMs then calling "put" on the home to send out messages, will find a session bean home, create a session bean instance corresponding to a queue, and call "put" on the bean instance to send messages. In this manner, the message queue

can be managed using standard EJB techniques.

36.Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Drawings
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☐ 21. Document ID: US 6687848 B1

L3: Entry 21 of 32

File: USPT

Feb 3, 2004

US-PAT-NO: 6687848

DOCUMENT-IDENTIFIER: US 6687848 B1

TITLE: Techniques for preventing information loss in a business to business message in an enterprise computer system

DATE-ISSUED: February 3, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Najmi; Farrukh S.	Reading	MA		

US-CL-CURRENT: 714/4; 705/28, 705/29, 714/747

ABSTRACT:

A method of maintaining informational integrity of a business to business (B2B) message in a distributed e-business environment is described. A sent message is stored a selected portion of which is flagged. A corresponding response message is then compared to the stored sent message. Based upon the comparing, when the response message matches the stored sent message, if a portion of the response message corresponding to the flagged portion is determined to be substantially missing, then the missing portion of the response message is replaced.

13 Claims, 12 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 12

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Drawings
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☐ 22. Document ID: US 6675261 B2

L3: Entry 22 of 32

File: USPT

Jan 6, 2004

US-PAT-NO: 6675261

DOCUMENT-IDENTIFIER: US 6675261 B2

TITLE: Request based caching of data store data

DATE-ISSUED: January 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shandony; Michael J.	Santa Clara	CA		

US-CL-CURRENT: 711/121; 710/310, 710/56, 711/129, 711/154, 711/170, 718/104,
718/105

ABSTRACT:

A request, such as those embedded in URLs and XML documents, is assigned to a thread of execution in a server that is in communication with a data store. The thread of execution includes a thread local storage with a pointer to a cache object. The cache object maintains copies of data store entries frequently accessed by the assigned request. The cache object is accessed in response to data store access commands arising from the request. When a data store access command specifies a data store entry not found in the cache object, the server creates and loads a corresponding cache object entry. The cache object is not updated when other requests alter data store entries, and memory access commands arising from other requests cannot cause the cache object to be accessed. When the request causes the server to write data to the data store, the cache object also maintains a copy of the written data. The server retrieves the written data from the cache object in response to subsequent data store access queries arising from the request. The cache object is destroyed once the server completes a response to the request.

36 Claims, 77 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 52

Full	Title	Citation	Front	Review	Classification	Date	Reference	Fig. 1	Fig. 2	Fig. 3	Fig. 4	Fig. 5	Fig. 6	Fig. 7	Fig. 8	Fig. 9	Fig. 10	Fig. 11	Fig. 12	Fig. 13	Fig. 14	Fig. 15	Fig. 16	Fig. 17	Fig. 18	Fig. 19	Fig. 20	Fig. 21	Fig. 22	Fig. 23	Fig. 24	Fig. 25	Fig. 26	Fig. 27	Fig. 28	Fig. 29	Fig. 30	Fig. 31	Fig. 32	Fig. 33	Fig. 34	Fig. 35	Fig. 36	Fig. 37	Fig. 38	Fig. 39	Fig. 40	Fig. 41	Fig. 42	Fig. 43	Fig. 44	Fig. 45	Fig. 46	Fig. 47	Fig. 48	Fig. 49	Fig. 50	Fig. 51	Fig. 52	Fig. 53	Fig. 54	Fig. 55	Fig. 56	Fig. 57	Fig. 58	Fig. 59	Fig. 60	Fig. 61	Fig. 62	Fig. 63	Fig. 64	Fig. 65	Fig. 66	Fig. 67	Fig. 68	Fig. 69	Fig. 70	Fig. 71	Fig. 72	Fig. 73	Fig. 74	Fig. 75	Fig. 76	Fig. 77	Fig. 78	Fig. 79	Fig. 80	Fig. 81	Fig. 82	Fig. 83	Fig. 84	Fig. 85	Fig. 86	Fig. 87	Fig. 88	Fig. 89	Fig. 90	Fig. 91	Fig. 92	Fig. 93	Fig. 94	Fig. 95	Fig. 96	Fig. 97	Fig. 98	Fig. 99	Fig. 100	Fig. 101	Fig. 102	Fig. 103	Fig. 104	Fig. 105	Fig. 106	Fig. 107	Fig. 108	Fig. 109	Fig. 110	Fig. 111	Fig. 112	Fig. 113	Fig. 114	Fig. 115	Fig. 116	Fig. 117	Fig. 118	Fig. 119	Fig. 120	Fig. 121	Fig. 122	Fig. 123	Fig. 124	Fig. 125	Fig. 126	Fig. 127	Fig. 128	Fig. 129	Fig. 130	Fig. 131	Fig. 132	Fig. 133	Fig. 134	Fig. 135	Fig. 136	Fig. 137	Fig. 138	Fig. 139	Fig. 140	Fig. 141	Fig. 142	Fig. 143	Fig. 144	Fig. 145	Fig. 146	Fig. 147	Fig. 148	Fig. 149	Fig. 150	Fig. 151	Fig. 152	Fig. 153	Fig. 154	Fig. 155	Fig. 156	Fig. 157	Fig. 158	Fig. 159	Fig. 160	Fig. 161	Fig. 162	Fig. 163	Fig. 164	Fig. 165	Fig. 166	Fig. 167	Fig. 168	Fig. 169	Fig. 170	Fig. 171	Fig. 172	Fig. 173	Fig. 174	Fig. 175	Fig. 176	Fig. 177	Fig. 178	Fig. 179	Fig. 180	Fig. 181	Fig. 182	Fig. 183	Fig. 184	Fig. 185	Fig. 186	Fig. 187	Fig. 188	Fig. 189	Fig. 190	Fig. 191	Fig. 192	Fig. 193	Fig. 194	Fig. 195	Fig. 196	Fig. 197	Fig. 198	Fig. 199	Fig. 200	Fig. 201	Fig. 202	Fig. 203	Fig. 204	Fig. 205	Fig. 206	Fig. 207	Fig. 208	Fig. 209	Fig. 210	Fig. 211	Fig. 212	Fig. 213	Fig. 214	Fig. 215	Fig. 216	Fig. 217	Fig. 218	Fig. 219	Fig. 220	Fig. 221	Fig. 222	Fig. 223	Fig. 224	Fig. 225	Fig. 226	Fig. 227	Fig. 228	Fig. 229	Fig. 230	Fig. 231	Fig. 232	Fig. 233	Fig. 234	Fig. 235	Fig. 236	Fig. 237	Fig. 238	Fig. 239	Fig. 240	Fig. 241	Fig. 242	Fig. 243	Fig. 244	Fig. 245	Fig. 246	Fig. 247	Fig. 248	Fig. 249	Fig. 250	Fig. 251	Fig. 252	Fig. 253	Fig. 254	Fig. 255	Fig. 256	Fig. 257	Fig. 258	Fig. 259	Fig. 260	Fig. 261	Fig. 262	Fig. 263	Fig. 264	Fig. 265	Fig. 266	Fig. 267	Fig. 268	Fig. 269	Fig. 270	Fig. 271	Fig. 272	Fig. 273	Fig. 274	Fig. 275	Fig. 276	Fig. 277	Fig. 278	Fig. 279	Fig. 280	Fig. 281	Fig. 282	Fig. 283	Fig. 284	Fig. 285	Fig. 286	Fig. 287	Fig. 288	Fig. 289	Fig. 290	Fig. 291	Fig. 292	Fig. 293	Fig. 294	Fig. 295	Fig. 296	Fig. 297	Fig. 298	Fig. 299	Fig. 300	Fig. 301	Fig. 302	Fig. 303	Fig. 304	Fig. 305	Fig. 306	Fig. 307	Fig. 308	Fig. 309	Fig. 310	Fig. 311	Fig. 312	Fig. 313	Fig. 314	Fig. 315	Fig. 316	Fig. 317	Fig. 318	Fig. 319	Fig. 320	Fig. 321	Fig. 322	Fig. 323	Fig. 324	Fig. 325	Fig. 326	Fig. 327	Fig. 328	Fig. 329	Fig. 330	Fig. 331	Fig. 332	Fig. 333	Fig. 334	Fig. 335	Fig. 336	Fig. 337	Fig. 338	Fig. 339	Fig. 340	Fig. 341	Fig. 342	Fig. 343	Fig. 344	Fig. 345	Fig. 346	Fig. 347	Fig. 348	Fig. 349	Fig. 350	Fig. 351	Fig. 352	Fig. 353	Fig. 354	Fig. 355	Fig. 356	Fig. 357	Fig. 358	Fig. 359	Fig. 360	Fig. 361	Fig. 362	Fig. 363	Fig. 364	Fig. 365	Fig. 366	Fig. 367	Fig. 368	Fig. 369	Fig. 370	Fig. 371	Fig. 372	Fig. 373	Fig. 374	Fig. 375	Fig. 376	Fig. 377	Fig. 378	Fig. 379	Fig. 380	Fig. 381	Fig. 382	Fig. 383	Fig. 384	Fig. 385	Fig. 386	Fig. 387	Fig. 388	Fig. 389	Fig. 390	Fig. 391	Fig. 392	Fig. 393	Fig. 394	Fig. 395	Fig. 396	Fig. 397	Fig. 398	Fig. 399	Fig. 400	Fig. 401	Fig. 402	Fig. 403	Fig. 404	Fig. 405	Fig. 406	Fig. 407	Fig. 408	Fig. 409	Fig. 410	Fig. 411	Fig. 412	Fig. 413	Fig. 414	Fig. 415	Fig. 416	Fig. 417	Fig. 418	Fig. 419	Fig. 420	Fig. 421	Fig. 422	Fig. 423	Fig. 424	Fig. 425	Fig. 426	Fig. 427	Fig. 428	Fig. 429	Fig. 430	Fig. 431	Fig. 432	Fig. 433	Fig. 434	Fig. 435	Fig. 436	Fig. 437	Fig. 438	Fig. 439	Fig. 440	Fig. 441	Fig. 442	Fig. 443	Fig. 444	Fig. 445	Fig. 446	Fig. 447	Fig. 448	Fig. 449	Fig. 450	Fig. 451	Fig. 452	Fig. 453	Fig. 454	Fig. 455	Fig. 456	Fig. 457	Fig. 458	Fig. 459	Fig. 460	Fig. 461	Fig. 462	Fig. 463	Fig. 464	Fig. 465	Fig. 466	Fig. 467	Fig. 468	Fig. 469	Fig. 470	Fig. 471	Fig. 472	Fig. 473	Fig. 474	Fig. 475	Fig. 476	Fig. 477	Fig. 478	Fig. 479	Fig. 480	Fig. 481	Fig. 482	Fig. 483	Fig. 484	Fig. 485	Fig. 486	Fig. 487	Fig. 488	Fig. 489	Fig. 490	Fig. 491	Fig. 492	Fig. 493	Fig. 494	Fig. 495	Fig. 496	Fig. 497	Fig. 498	Fig. 499	Fig. 500	Fig. 501	Fig. 502	Fig. 503	Fig. 504	Fig. 505	Fig. 506	Fig. 507	Fig. 508	Fig. 509	Fig. 510	Fig. 511	Fig. 512	Fig. 513	Fig. 514	Fig. 515	Fig. 516	Fig. 517	Fig. 518	Fig. 519	Fig. 520	Fig. 521	Fig. 522	Fig. 523	Fig. 524	Fig. 525	Fig. 526	Fig. 527	Fig. 528	Fig. 529	Fig. 530	Fig. 531	Fig. 532	Fig. 533	Fig. 534	Fig. 535	Fig. 536	Fig. 537	Fig. 538	Fig. 539	Fig. 540	Fig. 541	Fig. 542	Fig. 543	Fig. 544	Fig. 545	Fig. 546	Fig. 547	Fig. 548	Fig. 549	Fig. 550	Fig. 551	Fig. 552	Fig. 553	Fig. 554	Fig. 555	Fig. 556	Fig. 557	Fig. 558	Fig. 559	Fig. 560	Fig. 561	Fig. 562	Fig. 563	Fig. 564	Fig. 565	Fig. 566	Fig. 567	Fig. 568	Fig. 569	Fig. 570	Fig. 571	Fig. 572	Fig. 573	Fig. 574	Fig. 575	Fig. 576	Fig. 577	Fig. 578	Fig. 579	Fig. 580	Fig. 581	Fig. 582	Fig. 583	Fig. 584	Fig. 585	Fig. 586	Fig. 587	Fig. 588	Fig. 589	Fig. 590	Fig. 591	Fig. 592	Fig. 593	Fig. 594	Fig. 595	Fig. 596	Fig. 597	Fig. 598	Fig. 599	Fig. 600	Fig. 601	Fig. 602	Fig. 603	Fig. 604	Fig. 605	Fig. 606	Fig. 607	Fig. 608	Fig. 609	Fig. 610	Fig. 611	Fig. 612	Fig. 613	Fig. 614	Fig. 615	Fig. 616	Fig. 617	Fig. 618	Fig. 619	Fig. 620	Fig. 621	Fig. 622	Fig. 623	Fig. 624	Fig. 625	Fig. 626	Fig. 627	Fig. 628	Fig. 629	Fig. 630	Fig. 631	Fig. 632	Fig. 633	Fig. 634	Fig. 635	Fig. 636	Fig. 637	Fig. 638	Fig. 639	Fig. 640	Fig. 641	Fig. 642	Fig. 643	Fig. 644	Fig. 645	Fig. 646	Fig. 647	Fig. 648	Fig. 649	Fig. 650	Fig. 651	Fig. 652	Fig. 653	Fig. 654	Fig. 655	Fig. 656	Fig. 657	Fig. 658	Fig. 659	Fig. 660	Fig. 661	Fig. 662	Fig. 663	Fig. 664	Fig. 665	Fig. 666	Fig. 667	Fig. 668	Fig. 669	Fig. 670	Fig. 671	Fig. 672	Fig. 673	Fig. 674	Fig. 675	Fig. 676	Fig. 677	Fig. 678	Fig. 679	Fig. 680	Fig. 681	Fig. 682	Fig. 683	Fig. 684	Fig. 685	Fig. 686	Fig. 687	Fig. 688	Fig. 689	Fig. 690	Fig. 691	Fig. 692	Fig. 693	Fig. 694	Fig. 695	Fig. 696	Fig. 697	Fig. 698	Fig. 699	Fig. 700	Fig. 701	Fig. 702	Fig. 703	Fig. 704	Fig. 705	Fig. 706	Fig. 707	Fig. 708	Fig. 709	Fig. 710	Fig. 711	Fig. 712	Fig. 713	Fig. 714	Fig. 715	Fig. 716	Fig. 717	Fig. 718	Fig. 719	Fig. 720	Fig. 721	Fig. 722	Fig. 723	Fig. 724	Fig. 725	Fig. 726	Fig. 727	Fig. 728	Fig. 729	Fig. 730	Fig. 731	Fig. 732	Fig. 733	Fig. 734	Fig. 735	Fig. 736	Fig. 737	Fig. 738	Fig. 739	Fig. 740	Fig. 741	Fig. 742	Fig. 743	Fig. 744	Fig. 745	Fig. 746	Fig. 747	Fig. 748	Fig. 749	Fig. 750	Fig. 751	Fig. 752	Fig. 753	Fig. 754	Fig. 755	Fig. 756	Fig. 757	Fig. 758	Fig. 759	Fig. 760	Fig. 761	Fig. 762	Fig. 763	Fig. 764	Fig. 765	Fig. 766	Fig. 767	Fig. 768	Fig. 769	Fig. 770	Fig. 771	Fig. 772	Fig. 773	Fig. 774	Fig. 775	Fig. 776	Fig. 777	Fig. 778	Fig. 779	Fig. 780	Fig. 781	Fig. 782	Fig. 783	Fig. 784	Fig. 785	Fig. 786	Fig. 787	Fig. 788	Fig. 789	Fig. 790	Fig. 791	Fig. 792	Fig. 793	Fig. 794	Fig. 795	Fig. 796	Fig. 797	Fig. 798	Fig. 799	Fig. 800	Fig. 801	Fig. 802	Fig. 803	Fig. 804	Fig. 805	Fig. 806	Fig. 807	Fig. 808	Fig. 809	Fig. 810	Fig. 811	Fig. 812	Fig. 813	Fig. 814	Fig. 815	Fig. 816	Fig. 817	Fig. 818	Fig. 819	Fig. 820	Fig. 821	Fig. 822	Fig. 823	Fig. 824	Fig. 825	Fig. 826	Fig. 827	Fig. 828	Fig. 829	Fig. 830	Fig. 831	Fig. 832	Fig. 833	Fig. 834	Fig. 835	Fig. 836	Fig. 837	Fig. 838	Fig. 839	Fig. 840	Fig. 841	Fig. 842	Fig. 843	Fig. 844	Fig. 845	Fig. 846	Fig. 847	Fig. 848	Fig. 849	Fig. 850	Fig. 851	Fig. 852	Fig. 853	Fig. 854	Fig. 855	Fig. 856	Fig. 857	Fig. 858	Fig. 859	Fig. 860	Fig. 861	Fig. 862	Fig. 863	Fig. 864	Fig. 865	Fig. 866	Fig. 867	Fig. 868	Fig. 869	Fig. 870	Fig. 871	Fig. 872	Fig. 873	Fig. 874	Fig. 875	Fig. 876	Fig. 877	Fig. 878	Fig. 879	Fig. 880	Fig. 881	Fig. 882	Fig. 883	Fig. 884	Fig. 885	Fig. 886	Fig. 887	Fig. 888	Fig. 889	Fig. 890	Fig. 891	Fig. 892	Fig. 893	Fig. 894	Fig. 895	Fig. 896	Fig. 897	Fig. 898	Fig. 899	Fig. 900	Fig. 901	Fig. 902	Fig. 903	Fig. 904	Fig. 905	Fig. 906	Fig. 907	Fig. 908	Fig. 909	Fig. 910	Fig. 911	Fig. 912	Fig. 913	Fig. 914	Fig. 915	Fig. 916	Fig. 917	Fig. 918	Fig. 919	Fig. 920	Fig. 921	Fig. 922	Fig. 923	Fig. 924	Fig. 925	Fig. 926	Fig. 927	Fig. 928	Fig. 929	Fig. 930	Fig. 931	Fig. 932	Fig. 933	Fig. 934	Fig. 935	Fig. 936	Fig. 937	Fig. 938	Fig. 939	Fig. 940	Fig. 941	Fig. 942	Fig. 943	Fig. 944	Fig. 945	Fig. 946	Fig. 947	Fig. 948	Fig. 949	Fig. 950	Fig. 951	Fig. 952	Fig. 953	Fig. 954	Fig. 955	Fig. 956	Fig. 957	Fig. 958	Fig. 959	Fig. 960	Fig. 961	Fig. 962	Fig. 963	Fig. 964	Fig. 965	Fig. 966	Fig. 967	Fig. 968	Fig. 969	Fig. 970	Fig. 971	Fig. 972	Fig. 973	Fig. 974	Fig. 975	Fig. 976	Fig. 977	Fig. 978	Fig. 979	Fig. 980	Fig. 981	Fig. 982	Fig. 983	Fig. 984	Fig. 985	Fig. 986	Fig. 987	Fig. 988	Fig. 989	Fig. 990	Fig. 991	Fig. 992	Fig. 993	Fig. 994	Fig. 995	Fig. 996	Fig. 997	Fig. 998	Fig. 999	Fig. 1000	Fig. 1001	Fig. 1002	Fig. 1003	Fig. 1004	Fig. 1005	Fig. 1006	Fig. 1007	Fig. 1008	Fig. 1009	Fig. 1010	Fig. 1011	Fig. 1012	Fig. 1013	Fig. 1014	Fig. 1015	Fig. 1016	Fig. 1017	Fig. 1018	Fig. 1019	Fig. 1020	Fig. 1021	Fig. 1022	Fig. 1023	Fig. 1024	Fig. 1025	Fig. 1026	Fig. 1027	Fig. 1028	Fig. 1029	Fig. 1030	Fig. 1031	Fig. 1032	Fig. 1033	Fig. 1034	Fig. 1035	Fig. 1036	Fig. 1037	Fig. 1038	Fig. 1039	Fig. 1040	Fig. 1041	Fig. 1042	Fig. 1043	Fig. 1044	Fig. 1045	Fig. 1046	Fig. 1047	Fig. 1048	Fig. 1049	Fig. 1050	Fig. 1051	Fig. 1052	Fig. 1053	Fig. 1054	Fig. 1055	Fig. 1056	Fig. 1057
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A process and apparatus in a data processing svstem for presenting a view to a client. At an application mediator, a view event is received from a view controller, wherein the view event describes an action on a displayed container handled by the view controller. Responsive to a requirement that a change in a placement of the displaved container is required, a placement event is generated by the application mediator. A determination is then made by a placement listener, as to whether the placement event includes an indication that an alternate view is to be generated. Responsive to a determination that an alternate view is to be generated, a call is sent to a method in the view controller to generate the alternate view.

20 Claims, 197 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 119

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGURE	Draw. C.
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☐ 24. Document ID: US 6654932 B1

L3: Entry 24 of 32

File: USPT

Nov 25, 2003

US-PAT-NO: 6654932

DOCUMENT-IDENTIFIER: US 6654932 B1

TITLE: Validating data within container objects handled by view controllers

DATE-ISSUED: November 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bahrs; Peter C.	Austin	TX		
Modh; Manish Mahesh	Round Rock	TX		

US-CL-CURRENT: 715/507; 715/508, 715/764, 717/116

ABSTRACT:

A method and apparatus in a data processing system for performing validation of user input. User input is received in a container displayed in a graphical user interface, wherein presentation of the container and the user input to the container are handled by a view controller. Responsive to receiving the user input, a call is sent to a validation object by the view controller. Responsive to the call, the validation object tests the user input using a criteria, wherein the rule is separate from the view controller.

25 Claims, 196 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 119

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGURE	Draw. C.
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☐ 25. Document ID: US 6643652 B2

L3: Entry 25 of 32

File: USPT

Nov 4, 2003

US-PAT-NO: 6643652

DOCUMENT-IDENTIFIER: US 6643652 B2

TITLE: Method and apparatus for managing data exchange among systems in a network

DATE-ISSUED: November 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Helgeson; Christopher S.	Mountain View	CA		
Lipkin; Daniel S.	Belmont	CA		
Larson; Robert S.	Redwood City	CA		
Panuganti; Srinivas	Sunnyvale	CA		

US-CL-CURRENT: 707/10; 707/104.1, 709/202, 709/203

ABSTRACT:

The present mechanism provides a solution to the needs described above through a system and method for managing data exchange among systems in a network. The systems and methods of the present mechanism translate data from a system specific local format to a generic interchange format object, and vice versa, with predefined stylesheets using generic components and a system specific service components which utilize a native application programming interface of the specific local system.

31 Claims, 18 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 17

Full	Title	Citation	Print	Review	Classification	Date	Reference	Abstract	Claims	Drawings
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☐ 26. Document ID: US 6615188 B1

L3: Entry 26 of 32

File: USPT

Sep 2, 2003

US-PAT-NO: 6615188

DOCUMENT-IDENTIFIER: US 6615188 B1

**** See image for Certificate of Correction ****

TITLE: Online trade aggregating system

DATE-ISSUED: September 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Breen; Peter E.	Basking Ridge	NJ		

Macleod; Michael D. New York NY
Tudisco; Geoffrey M. New York NY

US-CL-CURRENT: 705/37

ABSTRACT:

A trading server collects orders from a plurality of order terminals. Orders are aggregated by transaction type, such as buy or sell types, and by issuer. The combined orders are executed as a single transaction on an exchange.

17 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Page	Draw
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☐ 27. Document ID: US 6571274 B1

L3: Entry 27 of 32

File: USPT

May 27, 2003

US-PAT-NO: 6571274

DOCUMENT-IDENTIFIER: US 6571274 B1

TITLE: Clustered enterprise Java.TM. in a secure distributed processing system

DATE-ISSUED: May 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jacobs; Dean B.	Berkeley	CA		
Langen; Anno R.	Berkeley	CA		

US-CL-CURRENT: 709/203; 718/1

ABSTRACT:

A clustered enterprise Java.TM. distributed processing system is provided. The distributed processing system includes a first and a second computer coupled to a communication medium. The first computer includes a Java.TM. virtual machine (JVM) and kernel software layer for transferring messages, including a remote Java.TM. virtual machine (RJVM). The second computer includes a JVM and a kernel software layer having a RJVM. Messages are passed from a RJVM to the JVM in one computer to the JVM and RJVM in the second computer. Messages may be forwarded through an intermediate server or rerouted after a network reconfiguration. Each computer includes a Smart stub having a replica handler, including a load balancing software component and a failover software component. Each computer includes a duplicated service naming tree for storing a pool of Smart stubs at a node. The computers may be programmed in a stateless, stateless factory, or a stateful programming model. The clustered enterprise Java.TM. distributed processing system allows for enhanced scalability and fault tolerance.

19 Claims, 20 Drawing figures

Exemplary Claim Number: 1
Number of Drawing Sheets: 16

Full	Title	Citation	Front	Review	Classification	Date	Reference	Figures	Drawings	Claims	Index	Drawings
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☐ 28. Document ID: US 6557009 B1

L3: Entry 28 of 32

File: USPT

Apr 29, 2003

US-PAT-NO: 6557009

DOCUMENT-IDENTIFIER: US 6557009 B1

TITLE: Environmental permit web portal with data validation capabilities

DATE-ISSUED: April 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Singer; Gary Brian	Ann Arbor	MI		
Adams; Jeffrey Neal	Alexandria	VA		
Goldwein; Clay Wyatt	McLean	VA		

US-CL-CURRENT: 707/104.1; 705/7, 707/10, 707/102, 709/218, 715/513

ABSTRACT:

A system is disclosed that allows remote, regulated entity users web based access to authorization data, such as permit data in an environmental regulatory permitting or management system. The user can enter, edit and submit permit and compliance data in the environmental permitting system controlled by a regulating agency in real-time via a web browser over the Internet. The system can also validate submitted information in real-time and allows the user to correct the data. Electronic certification with a unique signature is also performed. Fee payment can be made electronically in real-time through the permitting system with an electronic payments system with a corresponding credit being made to the relevant department general ledger account.

54 Claims, 30 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 30

Full	Title	Citation	Front	Review	Classification	Date	Reference	Figures	Drawings	Claims	Index	Drawings
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☐ 29. Document ID: US 6425017 B1

L3: Entry 29 of 32

File: USPT

Jul 23, 2002

US-PAT-NO: 6425017

DOCUMENT-IDENTIFIER: US 6425017 B1

**** See image for Certificate of Correction ****

TITLE: Queued method invocations on distributed component applications

DATE-ISSUED: July 23, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dievendorff; Richard	Bellevue	WA		
Helland; Patrick J.	Bellevue	WA		
Chopra; Gagan	Redmond	WA		
Al-Ghosein; Mohsen	Redmond	WA		

US-CL-CURRENT: 719/315

ABSTRACT:

An object runtime architecture allows method invocations to be made on either a synchronous, real-time basis or a queued basis using the normal call semantics of an object model. The object runtime architecture provides a proxy of an object with a method invocation recorder for receiving method calls of a client on the object, and marshaling the method calls into a message for sending to a queue associated with the object. The object runtime architecture further provides a listener for dispatching the message from the queue to a player which uses a stub to unmarshal the message in order to issue the method calls to the object. The object runtime architecture thus decouples the client and objects lifetimes and availability, without requiring explicit programming of the client and object to perform message queuing. Accordingly, with no modification of the object's interface structure or code, the same object can be used in either a real-time or queued environment. This allows the decision between real-time or queued method invocations to be made much later than at development of the object, such as at run-time creation of the object.

14 Claims, 10 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Index	Drawings
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☐ 30. Document ID: US 6385643 B1

L3: Entry 30 of 32

File: USPT

May 7, 2002

US-PAT-NO: 6385643

DOCUMENT-IDENTIFIER: US 6385643 B1

TITLE: Clustered enterprise Java.TM. having a message passing kernel in a distributed processing system

DATE-ISSUED: May 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jacobs; Dean B.	Berkeley	CA		

US-CL-CURRENT: 709/203; 709/201, 709/238

ABSTRACT:

A clustered enterprise Java.TM. distributed processing system is provided. The distributed processing system includes a first and a second computer coupled to a communication medium. The first computer includes a Java.TM. virtual machine (JVM) and kernel software layer for transferring messages, including a remote Java.TM. virtual machine (RJVM). The second computer includes a JVM and a kernel software layer having a RJVM. Messages are passed from a RJVM to the JVM in one computer to the JVM and RJVM in the second computer. Messages may be forwarded through an intermediate server or rerouted after a network reconfiguration. Each computer includes a Smart stub having a replica handler, including a load balancing software component and a failover software component. Each computer includes a duplicated service naming tree for storing a pool of Smart stubs at a node. The computers may be programmed in a stateless, stateless factory, or a stateful programming model. The clustered enterprise Java.TM. distributed processing system allows for enhanced scalability and fault tolerance.

30 Claims, 20 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 16

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Drawings	Drawings
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☐ 31. Document ID: US 6292933 B1

L3: Entry 31 of 32

File: USPT

Sep 18, 2001

US-PAT-NO: 6292933

DOCUMENT-IDENTIFIER: US 6292933 B1

**** See image for Certificate of Correction ****

TITLE: Method and apparatus in a data processing system for systematically serializing complex data structures

DATE-ISSUED: September 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bahrs; Peter C.	Austin	TX		
Chancey; Raphael Poole	Austin	TX		
Feigenbaum; Barry Alan	Austin	TX		
Modh; Manish Mahesh	Round Rock	TX		
Sundberg; Sean Michael	Cedar Park	TX		
Woolfrey; John Allen Hubert	Mississauga			CA

US-CL-CURRENT: 717/107; 707/203, 717/108, 717/109

ABSTRACT:

A method and apparatus in a data processing system for serialization data. A serializer receives a data element for serialization, wherein the data element includes a class name string. Responsive to receiving the data element, the serializer replaces the class name string with a code having a smaller size than the class name string to form a modified data element. Responsive to forming the modified data element, in which the serializer serializes the modified data element. The serialized data is transmitted and deserialized by deserializer which replaces the indicator with the class name.

24 Claims, 197 Drawing figures
 Exemplary Claim Number: 1
 Number of Drawing Sheets: 119

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Index	Figure
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☐ 32. Document ID: US 6167564 A

L3: Entry 32 of 32

File: USPT

Dec 26, 2000

US-PAT-NO: 6167564

DOCUMENT-IDENTIFIER: US 6167564 A

TITLE: Software system development framework

DATE-ISSUED: December 26, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fontana; James Albert	Mission Viejo	CA		
Iyengar; Sridhar Srinivasa	Irvine	CA		
Pitchford; Anthony Reginald	Mission Viejo	CA		
Smith; Norman Roy	Lake Forest	CA		
Tolbert; Douglas Marshall	Newport Beach	CA		

US-CL-CURRENT: 717/104; 717/114, 717/120

ABSTRACT:

A system and method in a computer system for integrating software development tools and applications into the computer system in order to build, deploy and maintain enterprise business process applications in a heterogeneous development framework. Integration of the applications and software development tools are achieved through integration of the key elements of the computer system which are business models, domain models and components. In the process of integration the origin of a first newly developed/modified/existing business model is traced to a first newly developed/modified/existing domain model and these models are linked together. Next, the constituent components of a second newly developed/modified/existing domain model are traced to a newly developed/modified/existing set of components created and linked together. The system also involves recovery of constituent components from a newly developed/modified/existing system in a first heterogeneous environment and those constituent components are reconstructed into usable components inside a third newly developed/modified/existing domain model and are

linked together. The process also involves recovery of a fourth newly developed/modified/existing domain model from a second heterogeneous environment and linking it to a second newly developed/modified/existing business model.

1 Claims, 14 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 14

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Drawings
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Terms	Documents
L2 AND (order OR sequence)	32

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